Masonry Technical Programs
Gain a deeper understanding of ASTM and TMS requirements.

Workshops will be held from 2:00 p.m. to 4:00 p.m. at Country Inn and Suites in Lansing, MI and BAC Local #2 in Warren, Michigan.

Lansing Seminar to be held at:
Country Inn and Suites
6511 Centurion Dr
Lansing MI 48917

Warren Training Center
BAC Local #2
21031 Ryan Road
Warren, MI 48091

Craftworkers: Counts as an elective for Contractor College through the IMI.
Architects and Engineers: AIA credits will be provided

December 2019
Flashing and Insulation Installation - Mariano DiGiovanni & Dan Zechmeister

The presentation will cover base of wall flashing details for inside and outside corners and end dams. We will look at proper methods to install flashing materials, how to terminate the top of the flashing, and how to construct water-tight corners

Time: 2:00 p.m.- 4:00 p.m.

Lansing, December 11, 2019:
https://www.eventbrite.com/e/flashing-insulation-installation-lansing-contractor-tech-pgrm-tickets-70054379535

Warren, December 18, 2019:

January 2020
Mix Design & Testing – Nick Popoff & Chad Richard from St Mary’s Cement

Testing and Selection of Mortars and Grouts for Masonry

Often times, projects are delayed during construction due to test results suggesting non-compliance or additional “destructive” testing is implemented. The 2014 Cement and Concrete Reference Laboratory (CCRL) found that laboratories testing mortars and grouts did it improperly 89% of the time for Masonry and 56% of the time for Grout.

This 2 hour workshop is designed to walk the Mason Contractor, Testing Lab Personnel and/or Architects and Engineers through the minimum requirements of TMS 402/602 and each of the reference Material Specifications.

Cement specifications (ASTM C150, C91, C1329) as well as Hydrated Lime (ASTM C207) will be discussed for Portland Cement and Lime, Masonry Cements and Mortar Cements for use in manufacturing mortar for unit masonry.


**Time:** 2:00 p.m.- 4:00 p.m.

**Lansing January 16, 2020:**
https://www.eventbrite.com/e/mix-design-testing-lansing-contractor-tech-pgrm-tickets-77849845985

**Warren, January 30, 2020:**
https://www.eventbrite.com/e/mix-design-testing-warren-contractor-tech-pgrm-tickets-77848331455

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**February 2020**

**Cleaning – Doug Barron**

Improper cleaning techniques or improper use of cleaning products can cause severe damage to new masonry. This class will cover the basics of cleaning masonry. Case studies of several examples will be presented.

**Time:** 2:00 p.m.- 4:00 p.m.

**Lansing, February 20, 2020:**
https://www.eventbrite.com/e/february-cleaning-lansing-contractor-tech-pgrm-tickets-70057426649

**Warren, February 6, 2020:**
https://www.eventbrite.com/e/february-cleaning-warren-contractor-tech-pgrm-tickets-70058746597

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**March 2020**

**Safety – Howard Hipes: Lansing | Tom Ward: Warren**

This presentation will cover the basic requirements for wall bracing, restricted zones and scaffolding. An overview of the regulations and contractor / owner requirements for submitting wall bracing plans and establishing restricting zones.

**Time:** 2:00 p.m.- 4:00 p.m.

**Lansing, March 4, 2020:**

**Warren, March 25, 2020:**
April 2020

Code vs. Spec – Scott Walkowicz

Code vs Spec: Did you know that the masonry ‘code’ is actually two documents and that they’re written for different parties to construction? This session looks at the differences between the masonry code and the minimum masonry specification that goes with it. Topics will include things like who each document is written to, what requirements are in each for designers and constructors and why contractors should know both what is required of them and of the project designers.

Time: 2:00 p.m.- 4:00 p.m.

Lansing, April 8, 2020:
https://www.eventbrite.com/e/code-vs-spec-lansing-contractor-tech-pgrm-tickets-70188530785
Warren, April 15, 2020:
https://www.eventbrite.com/e/code-vs-spec-warren-contractor-tech-pgrm-tickets-70276287267

May 2020

New Technology – Tom Cuneio and Dan Zechmeister

There are four emerging software packages from the BIM-M effort; Masonry iQ Design, Direct Design, Masonry Unit Database, and Masonry iQ Build.

- **Masonry iQ Design** – Masonry iQ Design, now available, is a smart new Revit plug-in that studies modularity, properly bond corners, see cuts at openings, create masonry patterns, generate sweeps and draws masonry sections.
- **Direct Design** – Direct Design, now available, is an accelerated masonry building design software, which is both economical and very fast. One of the most exciting and useful outputs is the wall elevations with all the steel reinforcement shown, size and spacing.
- **Masonry Unit Database (MUD)** - The database, now online, is intended to provide designers and BIM users standardized data for their models.
- **Masonry iQ Build** – Masonry iQ Build, under development, is a solution for mason contractors to easily model projects in the beginning as a Revit plug-in and then eventually have its own standalone platform custom built for masonry needs.
  - **Masonry iQ Build deliverables**
    - Accurate unit counts (CadBlox style)
    - Full re-bar modeling
      - Re-bar quantities
      - Lap splices, hooks, etc.
      - Grout lifts
      - Re-bar shop drawings (fully detailed)
      - Clash detection and coordination with other trades
      - Masonry Unit Database (MUD) integrated
      - Masonry iQ Design integrated
        - Place movement joints
        - Create custom patterns
        - Calculate R values and U factors
        - Provide guidelines to meet energy code

Time: 2:00 p.m.- 4:00 p.m.

Lansing, May 6, 2020:
https://www.eventbrite.com/e/new-technology-lansing-contractor-tech-pgrm-tickets-70277260177
Warren, May 13, 2020:
https://www.eventbrite.com/e/new-technology-warren-contractor-tech-pgrm-tickets-70278325363